Amendments to the Claims

Please cancel Claims 1-15, 17, 24-39 and 41-45. Please amend Claims 16, 18, 19 and 21-23. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1-15.   (Cancelled)

16.   (Currently Amended) A queuing method ~~as claimed in Claim 13 wherein the step of~~ comprising the steps of:

writing in a first memory having a first memory access time a pointer to data to be transmitted;

writing ~~writes~~ the pointer in a single write operation to the first memory and establishes a linked list of pointers after the write operation;

transferring the pointer to a second memory having a second memory access time; and

dequeuing the pointer from the second memory.

17.   (Cancelled).

18.   (Currently Amended) A queuing method ~~as claimed in Claim 13 wherein the step of~~ comprising the steps of:

writing in a first memory having a first memory access time a pointer to data to be transmitted;

transferring the pointer to a second memory having a second memory access time; and

dequeuing the pointer from the second memory, wherein the step of transferring forwards a full cache row into the second memory.

19.   (Currently Amended) A queuing method ~~as claimed in Claim 13 wherein the step of~~ comprising the steps of:

writing in a first memory having a first memory access time a pointer to data to be transmitted;

transferring the pointer to a second memory having a second memory access time;

dequeuing the pointer from the second memory, wherein the step of transferring forwards a partially filled cache row into the second memory.

20.   (Original) A queuing method as claimed in Claim 18 wherein the cache row is transferred in a single write cycle.

21.   (Currently Amended) A queuing method ~~as claimed in Claim 13 wherein the step of~~ comprising the steps of:

writing in a first memory having a first memory access time a pointer to data to be transmitted, wherein entries in a cache row in first memory are ordered by position in the cache row;

transferring the pointer to a second memory having a second memory access time; and

dequeuing the pointer from the second memory.

22.   (Currently Amended) A queuing method ~~as claimed in Claim 13 wherein the step of~~ comprising the steps of:

writing in a first memory having a first memory access time a pointer to data to be transmitted, wherein the first memory includes two cache rows;

transferring the pointer to a second memory having a second memory access time; and

dequeuing the pointer from the second memory.

23.   (Currently Amended) A queuing method ~~as claimed in Claim 13 wherein the step of~~ comprising the steps of:

writing in a first memory having a first memory access time a pointer to data to be transmitted;

transferring the pointer to a second memory having a second memory access time; and

dequeuing the pointer from the second memory, wherein a packet vector stored in the second memory includes a cache row and a count of the number of pointers stored in the cache row.

24-39. (Cancelled)

40.   (Original) A queuing method as claimed in Claim 19 wherein the cache row is transferred in a single write cycle.

41-45. (Cancelled)